

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

BELAGAVI-590018



**Project Report
On
“WEB TECHNOLOGY LAB”**

Submitted in the fulfillment of the requirement of the fifth Semester

**Bachelor of Engineering
In
Computer Science and Engineering**

Submitted By

ROHITH H S 1BO24CS411

Under The Guidace of
Prof. Smitha B M
Assistant Professor



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Brindavan College of Engineering

Dwarakanagar, Bagalur Main Road, Yelahanka, Bengaluru – 560063

Affiliated to VTU Belagavi, Approved by AICTE, New Delhi, India

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ABSTRACT

This activity explores the design, development, and deployment of dynamic web applications using modern web technologies. Students learn to leverage HTML, CSS, and JavaScript to create responsive, interactive, and user-friendly web interfaces. Server-side programming concepts and database management systems are also introduced to enable the development of robust and scalable web applications.

Through hands-on exercises and projects, participants gain practical experience with web development frameworks, libraries, and tools, including React, Angular, Vue.js, Node.js, and MongoDB. Emphasis is placed on web accessibility, security, and performance optimization to ensure the development of high-quality web applications.

Web development is the process of building and maintaining websites and web applications. It involves a combination of technical skills, including programming languages, databases, and web frameworks, as well as soft skills, such as communication and project management.

→Keywords: Web Development, HTML, CSS, JavaScript, Responsive Web Design, Server-side Programming, Database Management, Web Frameworks, Web Accessibility, Security.

CREATING A HTML WEB PAGE

INTRODUCTION

Hypertext Markup Language (HTML) is the standard markup language for documents designed to be displayed in a web browser. It defines the content and structure of web content. It is often assisted by technologies such as Cascading Style Sheets (CSS) and scripting languages such as JavaScript, a programming language.

Web browsers receive HTML documents from a web server or from local storage and render the documents into multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for its appearance.

HTML elements are the building blocks of HTML pages. With HTML constructs, images and other objects such as interactive forms may be embedded into the rendered page. HTML provides a means to create structured documents by denoting structural semantics for text such as headings, paragraphs, lists, links, quotes, and other items. HTML elements are delineated by tags, written using angle brackets. Tags such as <image> and <input> directly introduce content into the page. Other tags such as <p> and </p> surround and provide information about document text and may include sub-element tags. Browsers do not display the HTML tags but use them to interpret the content of the page.

1.1 What is HTML?

- HTML stands for Hyper Text Markup Language
- HTML is the standard markup language for creating Web pages
- HTML describes the structure of a Web page
- HTML consists of a series of elements
- HTML elements tell the browser how to display the content
- HTML elements label pieces of content such as "this is a heading", "this is a paragraph", "this is a link", etc.

1.2 What is an HTML Element?

An HTML element is defined by a start tag, some content, and an end tag:

<tagname> Content goes here... </tagname>

The HTML element is everything from the start tag to the end tag:

<h1>My First Heading</h1>

<p>My first paragraph.</p>

1.3 Web Browsers

The purpose of a web browser (Chrome, Edge, Firefox, Safari) is to read HTML documents and display them correctly.

A browser does not display the HTML tags, but uses them to determine how to display the documents.

1.4 HTML Attributes

HTML attributes provide additional information about HTML elements.

- All HTML elements can have attributes.
- Attributes provide additional information about elements.
- Attributes are always specified in the start tag.
- Attributes usually come in name/value pairs like: name="value".

1.5 HTML Source Code for Resume:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<meta name="description" content="Resume of ROHITH H S - Aspiring Software Developer">
<title>Resume - ROHITH H S </title>
<style>
body {
font-family: Arial, sans-serif; margin: 0;
padding: 0;
background-color: #f4f4f4; color: #333;
line-height: 1.6;
}
header {
background: #007BFF; color: white;
padding: 20px; text-align: center;
}
header h1 {
margin: 0;
font-size: 2.5rem;
}
header p {
margin: 5px 0 0; font-size: 1.2rem;
```

```
}

main {
    padding: 20px; max-width: 800px; margin: auto;
}

section {
    margin-bottom: 20px;
}

section h2 {
    color: #007BFF;
    border-bottom: 2px solid #007BFF; display: inline-block;
    margin-bottom: 10px;
}

ul {
    list-style: none; padding: 0;
}

ul li {
    margin-bottom: 10px;
}

footer {
    text-align: center; padding: 10px; background: #333; color: white;
}

a {
    color: #007BFF;
    text-decoration: none;
}

</style>
</head>
<body>
```

```
<header>
<h1>ROHITH H S </h1>
<p>Cloud computing | DSA | System Design </p>
</header>
<main>
<section>
<h2>About Me</h2>
<p>Hi, I'm ROHITH H S , a dedicated and driven individual specializing in software development. My passion lies in leveraging technology to solve real-world problems and create innovative solutions.</p>
</section>
<section>
<h2>Education</h2>
<li><strong>Bachelor of Engineering in Computer Science</strong><br>Brindavan College Of Engineering Bengaluru -560063</li>
<li><strong>Diploma </strong><br>Smt L.V.Polytechnic 2021-24</li>
</ul>
</section>
<section>
<h2>Skills</h2>
<ul>
<li>Programming: Python ,C++, Java</li>
<li>Web Development: HTML, CSS, JavaScript, Node Js, Express Js</li>
<li>Database Management: SQL, MongoDB</li>
<li>DSA Problem-Solving and System Design </li>
```

```
</ul>
</section>
<section>
<h2>Experience</h2>
<ul>
<li><strong>Internship - 2024</strong><br>I learned Devops at "Crystallize Technology" 4 month of
internship and real time projects.</li>
</ul>
</section>
<section>
<h2>Contact</h2>
<ul>
<li>Email: <a href="mailto:rohithhs1433@gmail.com">rohithhs1433@gmail.com</a></li>
<li>Phone: +91-9113291111</li>
<li>LinkedIn: <a href="https://www.linkedin.com/in/rohith-h-s-884147325/">linkedin.com/in/rohith-h-s</a></li>
<li>GitHub: <a href="https://github.com/rohith-hs" target="_blank">github.com/rohith-hs
</a></li>
</ul>
</section>
</main>
<footer>
<p>&copy; 2025 ROHITH H S . All rights reserved.</p>
</footer>
</body>
</html>
```

1.8 EXPLANATION:

The HTML code creates a simple webpage

- 1. Form Section:** Lets users input details like User name, User Password
- 2. Page Section:** Displays the Home, About, Service, Design, Contact and Typing Bar.
- 3. JavaScript:** is a versatile, dynamically typed programming language used for interactive web applications.
- 4. Styling:** Makes the page visually appealing with Page borders, padding, and clean layout.

This setup allows users to view

1.9 OUTPUT :

12/3/25, 5:04 PM

Resume - ROHITH H S

ROHITH H S

Cloud computing | DSA | System Design

About Me

Hi, I'm ROHITH H S , a dedicated and driven individual specializing in software development. My passion lies in leveraging technology to solve real-world problems and create innovative solutions.

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Experience

Internship - 2024

I learned Devops at "Crystallize Technology" 4 month of internship and real time projects.

Contact

Email: rohithhs1433@gmail.com

Phone: +91-9113291111

LinkedIn: linkedin.com/in/rohith-h-s

GitHub: github.com/rohith-hs

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1.10 HTML Source Code for User Registration form:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>User Registration Form</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            margin: 0;
            padding: 0;
            background-color: #f9f9f9;
        }
        .container {
            width: 400px;
            margin: 50px auto;
            background: #fff;
            padding: 20px;
            border-radius: 8px;
            box-shadow: 0 2px 5px rgba(0, 0, 0, 0.2);
        }
        .container h2 {
            text-align: center;
            margin-bottom: 20px;
        }
```

```
color:#333;  
}  
label {  
    font-weight: bold;  
    margin-bottom: 5px;  
    display: block;  
}  
input, select, button {  
    width: 100%;  
    padding: 10px;  
    margin-bottom: 15px;  
    border: 1px solid #ccc;  
    border-radius: 4px;  
}  
button {  
    background: #007BFF;  
    color: white;  
    border: none;  
    cursor: pointer;  
}  
button:hover {  
    background: #0056b3;  
}  
</style>  
</head>  
<body>  
    <div class="container">  
        <h2>User Registration</h2>
```

```
< form action="submit_registration.php" method="POST">
    <label for="fullname">Full Name:</label>
    <input type="text" id="fullname" name="fullname" placeholder="Enter your full name" required>
    <label for="email">Email:</label>
    <input type="email" id="email" name="email" placeholder="Enter your email" required>

    <label for="password">Password:</label>
    <input type="password" id="password" name="password" placeholder="Enter your password" required>

    <label for="gender">Gender:</label>
    <select id="gender" name="gender" required>
        <option value="">Select Gender</option>
        <option value="Male">Male</option>
        <option value="Female">Female</option>
        <option value="Other">Other</option>
    </select>

    <label for="phone">Phone Number:</label>
    <input type="tel" id="phone" name="phone" placeholder="Enter your phone number" required>

    <label for="dob">Date of Birth:</label>
    <input type="date" id="dob" name="dob" required>
    <button type="submit">Register</button>
</form>
</div>
</body>
</html>
```

1.11 OUTPUT

User Registration

Full Name:

Email:

Password:

Gender:

Phone Number:

Date of Birth:

CONCLUSION:

The provided code offers a simple webpage web-based interface. It combines HTML for structure, CSS for styling, and JavaScript for interactivity, ensuring a seamless user experience.